

I claim:

1. A method for automatically generating computer program code comprising the steps of:

generating a description of an application;  
providing said description to a web service;  
parsing said description by said web service;  
locating a suitable coding module on a node contained within a computational grid;  
supplying said description to said node;  
applying said description to said coding module to generate an output object;  
returning said object.

2. The method as set forth in claim 1, wherein said suitable coding module comprises a plurality of coding modules.

3. The method as set forth in claim 2, wherein said plurality of coding modules is located on a plurality of nodes within a computational grid.

4. A method as set forth in claim 1, wherein said description is generated using Object Meta Language (OML).

5. A method as set forth in claim 4, wherein said OML is an eXtensible Markup Language (XML) dialect.

6. A method as set forth in claim 1, wherein said coding module is an XML template.
7. A method as set forth in claim 1, wherein said coding module is an eXtensible Style Language (XSL) style sheet.
8. A method as set forth in claim 7, wherein the step of applying said description to said object template further comprises the steps of:
  - parsing said description to locate at least one variable;
  - substituting said at least one variable with at least one replacement variable, wherein said at least one replacement variable is the result of an XML/XSL transform.
9. A method as set forth in claim 6, wherein the step of applying said description to said object template further comprises the steps of:
  - parsing said description to locate at least one variable;
  - substituting said at least one variable with at least one replacement variable, wherein said at least one replacement variable is stored in said XML template.
- 10 A method as set forth in claim 1, wherein said web service is IBM WebSphere.
11. A method as set forth in claim 1, wherein said output object is a java file.

12. A computer program product for automatically generating computer program code, comprising computer executable instructions for:

- generating a description of an application;
- providing said description to a web service;
- parsing said description by said web service;
- locating a suitable object template on a node contained within a computational grid;
- supplying said description to said node;
- applying said description to said object template;
- returning object.

13. The computer program product as set forth in claim 12, wherein said description comprises Object Meta Language (OML).

14. The computer program product as set forth in claim 12 wherein said OML is an eXtensible Markup Language (XML) dialect.

15. The computer program product as set forth in claim 12 wherein said coding module is an XML template.

16. The computer program product as set forth in claim 12 wherein said coding module is an eXtensible Style Language (XSL) style sheet.

17. The computer programming product as set forth in claim 15 wherein the computer readable instructions for applying said description to said object template further comprise instructions for:

parsing said description to locate at least one variable;

substituting said at least one variable with at least one replacement variable, wherein said at least one replacement variable is the result of an XML/XSL transform.

18. The computer programming product as set forth in claim 15 wherein the computer readable instructions for applying said description to said object template further comprise instructions for:

parsing said description to locate at least one variable;

substituting said at least one variable with at least one replacement variable, wherein said at least one replacement variable is stored in said XML template.

19. A system for automatically generating computer program code comprising:

an input terminal for inputting an application description;

a computational grid have at least one node;

a web service for supplying said application description to said node;

a coding module residing on said node, wherein said coding module generates an object from said description.

20. The system as set forth in claim 19, wherein said coding module comprises a plurality of coding modules.

21. The system as set forth in claim 19 wherein said description is generated using Object Meta Language (OML).

22. The system as set forth in claim 18 wherein said OML is an eXtensible Markup Language (XML) dialect.

23. The system as set forth in claim 19 wherein said coding module is an XML template.

24. The system as set forth in claim 19 wherein said coding module is an eXtensible Style Language (XSL) style sheet.

25. The system as set forth in claim 24 wherein said coding module for generating an object from said description includes computer code for:

    parsing said description to locate at least one variable;  
    substituting said at least one variable with at least one replacement variable,  
    wherein said at least one replacement variable is the result of an XML/XSL transform.

26. The system as set forth in claim 23 wherein said coding module for generating an object from said description includes computer code for:

    parsing said description to locate at least one variable;  
substituting said at least one variable with at least one replacement variable,  
wherein said at least one replacement variable is stored in said XML template.

27. The system as set forth in claim 19 wherein said web service is IBM WebSphere.